#5

DOCKET NO.: NOVA-0076 PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Michael S. Dobres, Aidyn Mouradov and

Hong Zhang

Serial No.: 09/911,588

Group Art Unit: TBA

Filing Date: July 24, 2001

Examiner: TBA

For: Transformation of Plants by Electroporation of Cultured Explants

DATE OF DEPOSIT: Drews-22 201
I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO REFUND SECTION, ACCOUNTING DIVISION, OFFICE OF FINANCE THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON,

DC 20231.

TYPED NAMÉ: Patrick J. Farley REGISTRATION NO.: 42,524

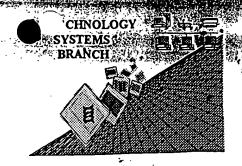
BOX MISSING PARTS

Assistant Commissioner for Patents Washington DC 20231

STATEMENT TO SUPPORT FILING AND SUBMISSION IN ACCORDANCE WITH 37 CFR §§ 1.821 THROUGH 1.825

| \boxtimes | I hereby state, in accordance with the requirements of 37 C.F.R. §1.821(f), that the contents of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 CFR §1.821(c) and (e), respectively are the same. |
|-------------|--|
| \boxtimes | I hereby state that the submission filed in accordance with 37 CFR §1.821(g) does not include new matter. |
| | I hereby state that the submission filed in accordance with 37 CFR §1.821(h) does not include new matter or go beyond the disclosure in the international application as filed. |
| | I hereby state that the amendments, made in accordance with 37 CFR §1.825(a), included in the substitute sheet(s) of the Sequence Listing are supported in the application, as filed, at pages I hereby state that the substitute sheet(s) of the Sequence Listing does (do) not include new matter. |

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/911,588Source: 01/6Date Processed by STIC: 08/02/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 09/911, 588 |
|-------------------------------------|--|---|
| ATTN: NEW RULES CASES: | PLEASE DISREGARD ENGLISH "ALPHA" HEA | DERS, WHICH WERE INSERTED BY PTO SOFTWARE |
| lWrapped Nucleics Wrapped Aminos | The number/text at the end of each line "wrapped was retrieved in a word processor after creating is prevent "wrapping." | "down to the next line. This may occur if your file t. Please adjust your right margin to .3; this will |
| 2Invalid Line Length | The rules require that a line not exceed 72 characteristics | eters in length. This includes white spaces. |
| 3Misaligned Amino Numbering | The numbering under each 5 th amino acid is misa use space characters, instead. | ligned. Do not use tab codes between numbers; |
| 4Non-ASCII | The submitted file was not saved in ASCII(DOS) ensure your subsequent submission is saved in | text, as required by the Sequence Rules. Please ASCII text. |
| 5Variable Length | Sequence(s) contain n's or Xaa's representing each n or Xaa can only represent a single residue having variable length and indicate in the | ue. Please present the maximum number of each |
| 6PatentIn 2.0 "bug" | sequences(s) Normally, PatentIn v | 220>-<223> section to be missing from amino acid would automatically generate this section from the nanually copy the relevant <220>-<223> section to set to the mandatory <220>-<223> sections for |
| 7Skipped Sequences (OLD RULES) | (2) INFORMATION FOR SEQ ID NO:X: (insert | Do not insert any subheadings under this heading) |
| | Please also adjust the "(ii) NUMBER OF SEQUE | NCES:" response to include the skipped sequences. |
| 8Skipped Sequences (NEW RULES) | Sequence(s) missing. If intentional, pleated 10> sequence id number <400> sequence id number 000 | se insert the following lines for each skipped sequence. |
| 9Use of n's or Xaa's (NEW RULES) | Use of n's and/or Xaa's have been detected in the Per 1.823 of Sequence Rules, use of <220>-<223: In <220> to <223> section, please explain location | |
| Invalid <213> Response | | > responses are: Unknown, Artificial Sequence, or ection is required when <213> response is Unknown or |
| 11Use of <220> | Use of <220> to <223> is MANDATORY if <21. "Unknown." Please explain source of genetic ma | re" and associated numeric identifiers and responses. 3> "Organism" response is "Artificial Sequence" or terial in <220> to <223> section. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules) |
| PatentIn 2.0 "bug" | Please do not use "Copy to Disk" function of Pater resulting in missing mandatory numeric identifier listing). Instead, please use "File Manager" or any | s and responses (as indicated on raw sequence |

AMC - Biotechnology Systems Branch - 06/04/2001

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/911,588

DATE: 08/02/2001
TIME: 14:25:48

Input Set : A:\nova76.ST25.txt

Output Set: N:\CRF3\08022001\I911588.raw

```
3 <110> APPLICANT: Dobres, Michael S.
               Mouradov, Aidyn
               Zhang, Hong
      7 <120> TITLE OF INVENTION: TRANSFORMATION OF PLANTS BY ELECTROPORATION OF CULTURED
EXPLANTS
      9 <130> FILE REFERENCE: NOVA-0076
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/911,588
C--> 11 <141> CURRENT FILING DATE: 2001-07-24
                                                                      Does Not Comply
     11 <160> NUMBER OF SEQ ID NOS: 10
     13 <170> SOFTWARE: PatentIn version 3.1
                                                                  Corrected Diskette Needed
     15 <210> SEQ ID NO: 1
     16 <211> LENGTH: 21
                                                         Adescription of mandatory in field 223 when the response ma field 213 is Artificial or Artificial Sequences
C--> 18 <213> ORGANISM: artificial Errored
W--> 20 <220> FEATURE:
W--> 20 <223> OTHER INFORMATION:
     20 <400> SEQUENCE: 1
     21 agctgtgctc gacgttgtca c
     24 <210> SEQ ID NO: 2
     25 <211> LENGTH: 20
     26 <212> TYPE: DNA
C--> 27 <213> ORGANISM: artificial
W--> 29 <220> FEATURE:
W--> 29 <223> OTHER INFORMATION:
     29 <400> SEQUENCE: 2
                                                                                    20
     30 aatcgggagc ggcgataccg
     33 <210> SEQ ID NO: 3
     34 <211> LENGTH: 21
     35 <212> TYPE: DNA
C--> 36 <213> ORGANISM: artificial
W--> 38 <220> FEATURE:
W--> 38 <223> OTHER INFORMATION:
     38 <400> SEQUENCE: 3
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     39 cgtggtgatg tggagtattg c
     42 <210> SEQ ID NO: 4
     43 <211> LENGTH: 19
     44 <212> TYPE: DNA
C--> 45 <213> ORGANISM: artificial
W--> 47 <220> FEATURE:
W--> 47 <223> OTHER INFORMATION:
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                                                                                    19
     48 ttgcagcaga aaagccgcc
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     52 <211> LENGTH: 21
     53 <212> TYPE: DNA
C--> 54 <213> ORGANISM: artificial
W--> 56 <220> FEATURE:
W--> 56 <223> OTHER INFORMATION:
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The types of errors shown exist throughout the Sequence Listing. Please check

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/911,588

DATE: 08/02/2001 TIME: 14:25:48

Input Set : A:\nova76.ST25.txt

Output Set: N:\CRF3\08022001\I911588.raw

| | | AAAA GROVENGE E | |
|----|----|-------------------------------------|----|
| | | <400> SEQUENCE: 5 | |
| | | ggaaagcttc ggatttggag c | 21 |
| | | <210> SEQ ID NO: 6 | |
| | | <211> LENGTH: 32 | |
| | 62 | <212> TYPE: DNA | |
| C> | 63 | <213> ORGANISM: artificial | |
| ₩> | 65 | <220> FEATURE: | |
| M> | 65 | <223> OTHER INFORMATION: | |
| | 65 | <400> SEQUENCE: 6 | |
| | 66 | cggctgcagc gtctgaaata aaacaataga ac | 32 |
| | 69 | <210> SEQ ID NO: 7 | |
| | 70 | <211> LENGTH: 22 | |
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| C> | 72 | <213> ORGANISM: artificial | |
| W> | 74 | <220> FEATURE: | |
| W> | 74 | <223> OTHER INFORMATION: | |
| | 74 | <400> SEQUENCE: 7 | |
| | 75 | tgaggatcct ttcgcatgat tg | 22 |
| | 78 | <210> SEQ ID NO: 8 | |
| | 79 | <211> LENGTH: 20 | |
| | 80 | <212> TYPE: DNA | |
| C> | 81 | <213> ORGANISM: artificial | |
| W> | 83 | <220> FEATURE: | |
| w> | 83 | <223> OTHER INFORMATION: | |
| | 83 | <400> SEQUENCE: 8 | |
| | 84 | ttggtacccc agagtcccgc | 20 |
| | 87 | <210> SEQ ID NO: 9 | |
| | 88 | <211> LENGTH: 25 | |
| | 89 | <212> TYPE: DNA | |
| C> | 90 | <213> ORGANISM: artificial | |
| W> | 92 | <220> FEATURE: | |
| W> | 92 | <223> OTHER INFORMATION: | |
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| | 96 | <210> SEQ ID NO: 10 | |
| | 97 | <211> LENGTH: 29 | |
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| C> | 99 | <213> ORGANISM: artificial | |
| W> | 10 | 1 <220> FEATURE: | |
| W> | 10 | 1 <223> OTHER INFORMATION: | |
| | 10 | 1 <400> SEQUENCE: 10 | |
| | 10 | 2 ctatatctag acatcgtaat tttaagacg | 29 |



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/911,588

DATE: 08/02/2001 TIME: 14:25:49

Input Set : A:\nova76.ST25.txt

Output Set: N:\CRF3\08022001\I911588.raw

- L:11 M:270 C: Current Application Number differs, Replaced Current Application No
- L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
- L:18 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
- L:20 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:20 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:27 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
- L:29 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:29 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:36 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
- L:38 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:38 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:45 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
- L:47 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:47 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:54 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5
- L:56 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:56 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:63 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6
- L:65 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:65 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:72 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7
- L:74 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:74 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:81 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8
- L:83 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:83 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:90 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9
- L:92 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:92 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION:
- L:99 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10
- L:101 M:258 W: Mandatory Feature missing, <220> FEATURE:
- L:101 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: